

## PCT REQUEST

PAPARA031475

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|         |   |   |
|---------|---|---|
| 0       | For receiving Office use only   |   |
| 0-1     | International Application No.   |   |
| 0-2     | International Filing Date   |   |
| 0-3     | Name of receiving Office and "PCT International Application"  |   |
| 0-4     | Form - PCT/RO/101 PCT Request   |   |
| 0-4-1   | Prepared using  | PCT-EASY Version 2.92<br>(updated 01.11.2003)   |
| 0-5     | Petition<br>The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |   |
| 0-6     | Receiving Office (specified by the applicant)   | Korean Intellectual Property Office<br>(RO/KR)  |
| 0-7     | Applicant's or agent's file reference   | PAPARA031475  |
| I       | Title of invention  | SPRINKLER HEAD  |
| II      | Applicant   |   |
| II-1    | This person is:   | applicant only  |
| II-2    | Applicant for   | all designated States except US   |
| II-4    | Name  | PARADISE INDUSTRY CO., LTD.   |
| II-5    | Address:  | 65-2, Chunui-Dong, Wonmi-Gu,<br>420-858 Bucheon, Gyeonggi-Do,<br>Republic of Korea                  |
| II-6    | State of nationality  | KR  |
| II-7    | State of residence  | KR  |
| II-8    | Telephone No.   | 82-2-795-2300   |
| II-9    | Facsimile No.   | 82-32-675-6297  |
| III-1   | Applicant and/or inventor   |   |
| III-1-1 | This person is:   | applicant only  |
| III-1-2 | Applicant for   | all designated States except US   |
| III-1-4 | Name (LAST, First)  | HATTORI, Tadashi  |
| III-1-5 | Address:  | Clover Heights Kinwada Berueru 607,<br>242-5, Gakuhara-Cho,<br>Kinwada-Shi, Osaka 596-0822<br>Japan |
| III-1-6 | State of nationality  | JP  |
| III-1-7 | State of residence  | JP  |

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| III-2   | Applicant and/or inventor   |   |
| III-2-1 | This person is:   | applicant and inventor  |
| III-2-2 | Applicant for   | US only   |
| III-2-4 | Name (LAST, First)  | SHIM, Dae-Min   |
| III-2-5 | Address:  | Hyundai Apt. 203-703, 654,<br>Gaepo-Dong, Gangnam-Gu,<br>135-240 Seoul,<br>Republic of Korea  |
| III-2-6 | State of nationality  | KR  |
| III-2-7 | State of residence  | KR  |
| IV-1    | Agent or common representative; or<br>address for correspondence<br>The person identified below is<br>hereby/has been appointed to act on<br>behalf of the applicant(s) before the<br>competent International Authorities as: | agent   |
| IV-1-1  | Name (LAST, First)  | PARK, Jang-Won  |
| IV-1-2  | Address:  | Jewoo Bldg. 5th Floor, 200,<br>Nonhyun-Dong, Gangnam-Gu,<br>135-010 Seoul,<br>Republic of Korea   |
| IV-1-3  | Telephone No.   | 82-2-549-6934   |
| IV-1-4  | Facsimile No.   | 82-2-549-6841   |
| V       | Designation of States   |   |
| V-1     | Regional Patent<br>(other kinds of protection or treatment,<br>if any, are specified between<br>parentheses after the designation(s)<br>concerned)  | AP: BW GH GM KE LS MW MZ SD SL SZ TZ UG<br>ZM ZW and any other State which is a<br>Contracting State of the Harare Protocol<br>and of the PCT<br>EA: AM AZ BY KG KZ MD RU TJ TM and any<br>other State which is a Contracting State<br>of the Eurasian Patent Convention and of<br>the PCT<br>EP: AT BE BG CH&LI CY CZ DE DK EE ES FI<br>FR GB GR HU IE IT LU MC NL PT RO SE SI<br>SK TR and any other State which is a<br>Contracting State of the European Patent<br>Convention and of the PCT<br>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR<br>NE SN TD TG and any other State which is<br>a member State of OAPI and a Contracting<br>State of the PCT |

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| V-2    | National Patent<br>(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)   | AE AG AL AM AT AU AZ BA BB BG BR BW BY<br>BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ<br>EC EE EG ES FI GB GD GE GH GM HR HU ID<br>IL IN IS JP KE KG KP KR KZ LC LK LR LS<br>LT LU LV MA MD MG MK MN MW MX MZ NI NO<br>NZ OM PG PH PL PT RO RU SC SD SE SG SK<br>SL SY TJ TM TN TR TT TZ UA UG US UZ VC<br>VN YU ZA ZM ZW |  |
| V-5    | <b>Precautionary Designation Statement</b><br>In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. |  |  |
| V-6    | Exclusion(s) from precautionary designations  | NONE   |  |
| VI-1   | Priority claim of earlier national application  |  |  |
| VI-1-1 | Filing date   | 23 December 2002 (23.12.2002)  |  |
| VI-1-2 | Number  | 20-2002-0038143  |  |
| VI-1-3 | Country   | KR   |  |
| VII-1  | International Searching Authority Chosen  | Korean Intellectual Property Office (KIPO) (ISA/KR)  |  |
| VIII   | Declarations  | Number of declarations   |  |
| VIII-1 | Declaration as to the identity of the inventor.   | -  |  |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent  | -  |  |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application  | -  |  |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America)  | -  |  |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  | -  |  |

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|       |  |  |                             |
|-------|--|--|-----------------------------|
| IX    | Check list   | number of sheets   | electronic file(s) attached |
| IX-1  | Request (including declaration sheets)                     | 4  | -                           |
| IX-2  | Description  | 17   | -                           |
| IX-3  | Claims   | 2  | -                           |
| IX-4  | Abstract   | 1  | EZABST00.TXT                |
| IX-5  | Drawings   | 7  | -                           |
| IX-7  | TOTAL  | 31   |                             |
|       | Accompanying items   | paper document(s) attached   | electronic file(s) attached |
| IX-8  | Fee calculation sheet                                      | ✓  | -                           |
| IX-9  | Original separate power of attorney                        |  | -                           |
| IX-11 | Copy of general power of attorney                          |  | -                           |
| IX-17 | PCT-EASY diskette  | -  | Diskette                    |
| IX-19 | Figure of the drawings which should accompany the abstract | 5  |                             |
| IX-20 | Language of filing of the international application        | Korean   |                             |
| X-1   | Signature of applicant, agent or common representative     |  |                             |
| X-1-1 | Name (LAST, First)   |  |                             |
|       |  | PARK, Jang-Won   |                             |

## FOR RECEIVING OFFICE USE ONLY

|        |   |        |
|--------|---|--------|
| 10-1   | Date of actual receipt of the purported international application   |        |
| 10-2   | Drawings:   |        |
| 10-2-1 | Received  |        |
| 10-2-2 | Not received  |        |
| 10-3   | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application |        |
| 10-4   | Date of timely receipt of the required corrections under PCT Article 11(2)  |        |
| 10-5   | International Searching Authority   | ISA/KR |
| 10-6   | Transmittal of search copy delayed until search fee is paid   |        |

## FOR INTERNATIONAL BUREAU USE ONLY

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|------|--|--|
| 11-1 | Date of receipt of the record copy by the International Bureau |  |
|------|--|--|

## PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

|        |  |  |
|--------|--|--|
| 0      | For receiving Office use only  |  |
| 0-1    | International Application No.  |  |
| 0-2    | Date stamp of the receiving Office                                       |  |
| 0-4    | Form - PCT/RO/101 (Annex)<br>PCT Fee Calculation Sheet<br>Prepared using | PCT-EASY Version 2.92<br>(updated 01.11.2003)  |
| 0-9    | Applicant's or agent's file reference                                    | PAPARA031475                                   |
| 2      | Applicant  | PARADISE INDUSTRY CO., LTD., et al.            |
| 12     | Calculation of prescribed fees   | fee amount/multiplier      Total amounts (KRW) |
| 12-1   | Transmittal fee      T   | ⇒      45,000                                  |
| 12-2-1 | Search fee      S  | ⇒      150,000                                 |
| 12-2-2 | International search to be carried out by                                | KR   |
| 12-3   | International fee  |  |
|        | Basic fee<br>(first 30 sheets)      b1                                   | 530,000  |
| 12-4   | Remaining sheets   | 1  |
| 12-5   | Additional amount      (X)   | 12,000   |
| 12-6   | Total additional amount      b2  | 12,000   |
| 12-7   | b1 + b2 =      B   | 542,000  |
| 12-8   | Designation fees   |  |
|        | Number of designations contained<br>in international application         | 99   |
| 12-9   | Number of designation fees<br>payable (maximum 5)                        | 5  |
| 12-10  | Amount of designation fee      (X)                                       | 114,000  |
| 12-11  | Total designation fees      D  | 570,000  |
| 12-12  | PCT-EASY fee reduction      R  | -163,000                                       |
| 12-13  | Total International fee (B+D-R)      I                                   | ⇒      949,000                                 |
| 12-17  | TOTAL FEES PAYABLE (T+S+I+P)   | ⇒      1,144,000                               |
| 12-19  | Mode of payment  | cash   |

## VALIDATION LOG AND REMARKS

|        |                                |   |
|--------|--------------------------------|---|
| 13-2-1 | Validation messages<br>Request | Green?<br>A translation of the international<br>application into English will have to be<br>prepared under the responsibility of the<br>ISA selected. |
|        |                                | Green?<br>Please note that the entire request<br>(including the title of invention) must<br>be in English   |

## PCT. (ANNEX - FEE CALCULATION SHEET)

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|             |  |   |
|-------------|--|---|
| 13-2-7      | Validation messages<br>Contents  | Green?<br>Priority 1. The priority document is not enclosed. (The applicant must furnish it within 16 months from the earliest priority date claimed) |
|             |  | Yellow<br>Accompanying item "copy of general power of attorney" has not been indicated as enclosed.   |
|             |  | Yellow<br>Accompanying item "original separate power of attorney" has not been indicated as enclosed.   |
| 13-2-8      | Validation messages<br>Fees  | Green?<br>Please confirm that fee schedule utilized is the latest available   |
| 13-2-1<br>1 | Validation messages<br>For receiving Office/International<br>Bureau use only | Green?<br>Verify electronic data for consistency against printed form.  |